## INTERNATIONAL SEARCH REPORT

International application No.

	INTERNATIONAL SEARCH REPORT		memanona appre	
			PCT/JP2005/008723	
	ATION OF SUBJECT MATTER F04C18/32, 23/00, 29/00		<u> </u>	
According to Int	ernational Patent Classification (IPC) or to both national	classification and IP	C	
B. FIELDS SE	ARCHED			
Minimum docum Int . Cl	nentation searched (classification system followed by class F04C18/32, 23/00, 29/00	ssification symbols)		
Jitsuyo Kokai J	itsuyo Shinan Koho 1971-2005 Tor	suyo Shinan T oku Jitsuyo S	oroku Koho Shinan Koho	1996-2005 1994-2005
Electronic data t	oase consulted during the international search (name of da	ata base and, where p	oracticable, search te	rms used)
C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	propriate, of the relev	ant passages	Relevant to claim No.
Y A Y A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 182995/1983 (Laid-open No. 90584/1985) (Mitsubishi Heavy Industries, Ltd.), 21 June, 1985 (21.06.85), Description; page 1, line 13 to page 3, line 14; page 6, lines 9 to 14; Figs. 1 to 4 (Family: none)  JP 8-61257 A (Matsushita Electric Industrial Co., Ltd.), 08 March, 1996 (08.03.96), Par. Nos. [0031], [0032]; Figs. 1, 2, 5 & US 5630712 A & US 5800149 A			1-7,9-11 8 1-7,9-11 8
* Special cate 'A' document to be of particle applied to earlier applied to expecial reases and document cited to expecial reases "O" document "P" document	ocuments are listed in the continuation of Box C.  egories of cited documents: defining the general state of the art which is not considered ticular relevance lication or patent but published on or after the international which may throw doubts on priority claim(s) or which is tablish the publication date of another citation or other son (as specified) referring to an oral disclosure, use, exhibition or other means published prior to the international filing date but later than date claimed	"T" later document date and not in the principle or "X" document of paconsidered not step when the considered to combined with being obvious to	published after the inti- conflict with the applic theory underlying the in- articular relevance: the vel or cannot be consi- locument is taken along articular relevance: the involve an inventive	claimed invention cannot be idered to involve an inventive e claimed invention cannot be step when the document is a documents, such combination the art
Date of the actual completion of the international search 29 July, 2005 (29.07.05)  Date of mailing of the international search 16 August, 2005 (16.08.05)				

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim
Y A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 153491/1986 (Laid-open No. 60091/1988) (Mitsubishi Heavy Industries, Ltd.), 21 April, 1988 (21.04.88), Description; page 8, line 13 to page 9, line 12; Figs. 1 to 5, 7	2 4
**	(Family: none)	
Y	JP 6-159278 A (Nippon Soken, Inc.), 07 June, 1994 (07.06.94), Fig. 2 & US 5399076 A	2
. <b>Y</b>	JP 2000-104677 A (Toshiba Corp.), 11 April, 2000 (11.04.00), Par. Nos. [0031] to [0033]; Fig. 2 (Family: none)	4
Y	JP 9-310687 A (Nippon Soken, Inc.), 02 December, 1997 (02.12.97), Par. No. [0014]; Fig. 1 (Family: none)	9
Y	JP 9-158849 A (Toshiba Corp.), 17 June, 1997 (17.06.97), Par. No. [0070]; Fig. 4 (Family: none)	9
Υ .	JP 2003-184764 A (Matsushita Electric Industrial Co., Ltd.), 03 July, 2003 (03.07.03), Par. No. [0029]; Fig. 1 (Family: none)	10-11
Y	JP 2004-60535 A (Denso Corp.), 26 February, 2004 (26.02.04), Par. No. [0012]; Figs. 1 to 4 (Family: none)	10-11
A	JP 7-63172 A (Matsushita Electric Industrial Co., Ltd.), 07 March, 1995 (07.03.95), Par. Nos. [0018], [0020]; Figs. 1 to 3, 5 to 7 (Family: none)	1-11
А	JP 10-184567 A (Daikin Industries, Ltd.), 14 July, 1998 (14.07.98), Par. Nos. [0023] to [0049]; Figs. 1 to 5 (Family: none)	1-11

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C (Continuation	). DOCUMENTS CONSIDERED TO BE RELEVANT	
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A	JP 7-229484 A (Sanyo Electric Co., Ltd.), 29 August, 1995 (29.08.95), Par. No. [0033] (Family: none)	1-11
A	JP 4-234589 A (Career Corp.), 24 August, 1992 (24.08.92), Par. Nos. [0015], [0016]; Figs. 1 to 4 & EP 0478269 A1 & US 5085565 A	1-11
<b>A</b>	JP 3-172592 A (Toshiba Corp.), 25 July, 1991 (25.07.91), Page 4, upper right column, line 14 to lower left column, line 18; Figs. 2 to 5 (Family: none)	1-11
А	JP 11-190285 A (Sanyo Electric Co., Ltd.), 13 July, 1999 (13.07.99), Par. Nos. [0021], [0025] to [0031]; Figs. 2 to 3 (Family: none)	1-11
<b>A</b>	JP 59-113289 A (Sanbe TAMAZAKI), 29 June, 1984 (29.06.84), Page 2, upper right column, line 2 to lower left column, line 8; Figs. 2 to 3 (Family: none)	4
A	WO 2002/088529 A1 (Masamaro NAKANO), 07 November, 2002 (07.11.02), Page 18, lines 1 to 6; page 19, lines 5 to 13; Figs. 16, 19 (Family: none)	4
A	JP 8-247063 A (Daikin Industries, Ltd.), 24 September, 1996 (24.09.96), Par. Nos. [0022] to [0027]; Figs. 4, 5 (Family: none)	4
P,A	US 2005/0031465 A1 (Nelik I. Dreiman), 10 February, 2005 (10.02.05), Par. No. [0024]; Figs. 3, 4 & JP 2005-54803 A & CA 2476741 A1	4